

Chapter 5: Forces Test

Q 7. A mover exerts a force on a piano. The piano exerts a force back. Together, these forces are known as a(n)

- a. action/reaction force pair
- b. friction/gravity force pair
- c. contact force/inertia pair
- d. balanced/unbalanced force pair

Q 8. Centripetal force keeps an object moving in a circle. This force points

- a. toward the center of the circle
- b. toward the outer edge of the circle
- c. to the right of the center of the circle
- d. away from the circle in all directions

Q 9. A bowling ball rolls down the lane and hits some pins before rolling off the lane. What happens to the momentum of the ball as it hits the pins?

- a. Some of the ball's momentum is transferred to the pins.
- b. All of the ball's momentum is transferred to the pins.
- c. None of the ball's momentum is transferred to the pins.
- d. The pins stop the ball from rolling farther.

Q 10. Conservation of momentum occurs only when there are

- a. no outside forces
- b. balanced and unbalanced force pairs
- c. gravity and friction
- d. mass and inertia